

Town of Rockport Hazard Mitigation Plan Update Public Workshop



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Date: September 14, 2020 6:00 PM – 8:00 PM
Virtual



Why Hazard Mitigation Planning

Disaster Mitigation Act of 2000, Interim Final Rule, 44 CFR Parts 201 and 206 states, “All communities must have an approved Multiple Hazards Mitigation Plan in order to qualify for future federal disaster mitigation grants”.

Reduction or elimination of long-term risk to life, property, and the environment.

Town of Rockport Local Hazard Mitigation Committee

- Mitch Vieira, Town Administrator
- Mark Schmink, Emergency Management Director/Assistant Chief of Police
- Seth Perry, Deputy Director Emergency Management
- Gary Leblanc, Assistant Director DPW
- Leslie Whelan, Board of Health Agent
- Geralyn Falco, Conservation Commission Agent
- Jack Porter, Citizen

Mitigation Process

- **Assess Risks**
- Establish Goals
- Identify Projects/Actions
- Update/Maintain Plan

Assess Risks...

Risk and Vulnerability Assessment

Natural Hazard:

“Any event or physical condition that has the potential to cause fatalities, injuries, property damage, infrastructure damage, and agricultural loss, damage to the environment, interruption of business, or other types of harm and/or loss”.

Hazards Affecting Rockport, MA

- Riverine/Flash Flooding
- Heavy Rain/Inland and Urban Flooding
- Climate Change
- Coastal Erosion/Shoreline Change
- Coastal Flooding
- Dam Failure
- Sea Level Rise
- Storm Surge
- Blizzards/Heavy Snow/Winter Weather/Nor'easters
- Extreme Cold
- Hurricanes
- Tornadoes/High Winds
- Lightning/Thunderstorms
- Hail
- Tropical Storms
- Water Spouts
- Earthquakes
- Landslides
- Drought
- Extreme Heat
- Urban Fire/Wildfires
- Invasive Species

Hazards Classification and Probability

■ Flood-Related Hazards

- Riverine/Flash Flooding: Moderate/High
- Heavy Rain/Inland and Urban Flooding: Moderate/High
- Climate Change: Moderate/High
- Dam Failure: Moderate
- Coastal Flooding: High
- Sea Level Rise: High
- Storm Surge: Moderate/High
- Coastal Erosion/Shoreline Change: High

Hazards Classification and Probability

- Winter-Related Hazards
 - Blizzards/Snow/Nor'easters: High
 - Extreme Cold: Low
- Wind-Related Hazards
 - Hurricanes: High
 - Tornadoes/High Winds: High
 - Lightning/Thunderstorms: Moderate
 - Hail: Low
 - Tropical Storms: High
 - Waterspouts: Low

Hazards Classification and Probability

- Geologic-Related Hazards
 - Earthquakes: Low
 - Landslides: Low
- Drought-Related Hazards
 - Drought: Moderate/High
 - Extreme Heat: Moderate
- Fire-Related Hazards
 - Urban Fire/Wildfire: Low
- Invasive Species-Related Hazards
 - Multiple: Low

Assess Risks...

Risk and Vulnerability Assessment - Assets

- **Economic Assets**

- Businesses/employers
- Tourist destinations

- **Social Assets**

- Vulnerable populations
- Cultural locations

Assess Risks...

Risk and Vulnerability Assessment - Assets

■ **Natural Resources**

- Lifeline and utility systems
- Wetlands
- Conservation and recreation lands

■ **Essential Buildings and Critical Facilities**

- Government buildings
- Hazardous facilities
- Roadways
- GIS Mapping

Mitigation Process

- Assess Risks
- **Establish Goals**
- Identify Projects/Actions
- Update/Maintain Plan

Establish Goals...Mitigation Goals

- Prevent and reduce the loss of life, injury and property damages resulting from all major natural hazards.
- Identify and seek funding for measures to mitigate or eliminate each known significant flood hazard area.
- Integrate hazard mitigation planning as an integral factor in all relevant municipal departments, committees and boards.
- Prevent and reduce the damage to public infrastructure resulting from all hazards.
- Encourage the business community, major institutions and non-profits to work with the town to develop, review and implement the hazard mitigation plan.

Establish Goals...Mitigation Goals

- Work with surrounding communities, state, regional and federal agencies to ensure regional cooperation and solutions for hazards affecting multiple communities.
- Ensure that future development meets federal, state and local standards for preventing and reducing the impacts of natural hazards.
- Educate the public about natural hazards and mitigation measures that can be undertaken by property owners.
- Take maximum advantage of resources from FEMA and MEMA to educate town staff and the public about hazard mitigation.

Establish Goals...Mitigation Measures

- Planning and Prevention
- Property Protection
- Natural Resource Protection
- Structural Projects
- Emergency Services, and
- Public Education and Awareness

Mitigation Process

- Assess Risks
- Establish Goals
- **Identify Projects/Actions**
- Update/Maintain Plan

Identify Projects/Actions...

Identification of Mitigation Actions

Mitigation actions to be developed based on review of the Town's identified risks and vulnerabilities to natural hazards.

Each action incorporates a brief description of the intended action, who the responsible parties are, a proposed time frame for completion and potential funding sources.

Identify Projects/Actions...

Prioritization of Actions...STAPLEE

- **Social**...is the action socially acceptable?
- **Technical**...is the action technically feasible and provide appropriate level of protection?
- **Administrative**...does the Town have the capability to complete the action?
- **Political**...will the Town support or oppose the project?
- **Legal**...does the Town have the legal authority to complete the action?
- **Economic**...is the action cost-effective?
- **Environmental**...will the action affect the natural environment?

Identify Projects/Actions... Implementation

- Town's Capability
- Plan Adoption/Incorporation into Existing Plans

Mitigation Process

- Assess Risks
- Establish Goals
- Identify Projects/Actions
- **Update/Maintain Plan**

2011 Plan Report Card

High Priority Mitigation Actions

- Replace granite pier and stone revetment on Wharf Road.
(Completed...remains ongoing)
- Mill Pond dam improvements. (Completed)
- Pigeon Cove sea wall and harbor entrance improvements.
(Completed)
- Improve the stone revetment on the granite pier on Old Granite Pier Road.
(Completed...remains ongoing)
- Improvements to the White Wharf at Bearskin Neck.
(Completed...remains ongoing)

2011 Plan Report Card

High Priority Mitigation Actions

- Drainage improvements at Lowest Lane and Summit Avenue. (Not Completed...carry forward)
- Upgrade pilings at T Wharf.
(Completed...remains ongoing)
- Replace staircase at Long Beach. (Completed...remains ongoing)
- Emergency sidewalk improvements to the Long Beach Sea Wall.
(Completed...remains ongoing)
- Long Beach sea wall improvements.
(Current underway...remains ongoing)
- Improvements to Penzance Road at Pebble Beach.
(Restored, but not repaired due to conservation concerns)

2011 Plan Report Card

High Priority Mitigation Actions

- Squam Hill drainage improvements. (Not Completed...carry forward)

Medium Priority Mitigation Actions

- Culvert replacement on Route 127/Nugent Stretch.

(Completed)

- Folly Cove drainage improvements. (Not Completed...carry forward)
- Drainage improvements at Penryn Way.

(Completed)

- Drainage improvements at High Street Court and Pleasant Street.

(Remove...no longer relevant)

- Sedimentation reduction at Mill Pond.

(Completed)



2011 Plan Report Card

Medium Priority Mitigation Actions

- Refurbish the fire roads in the Nugent Stretch.
(Completed...remains ongoing)
- Purchase new street sweeping equipment. (Completed)
- Make recommended repairs at the Carlson Quarry Dam.
(Surface repairs completed...remains ongoing)

Measures to Ensure Compliance with NFIP Requirements

- Continuation of open space protection and land acquisition.
(Completed...remains ongoing)
- Regulatory revisions for stormwater management. (Not Completed...carry forward)

2011 Plan Report Card

Measures to Ensure Compliance with NFIP Requirements

- Become fully 'Storm Ready'.

(Completed...remains ongoing)

- Provide information on NFIP compliance. (Not Completed...carry forward)



Online Public Survey

<https://www.surveymonkey.com/r/RockportHazardMitigationPlan>



Horsley Witten Group
Sustainable Environmental Solutions

Project Schedule

Draft Update available for comment: early **November 2020**

Draft Update to MEMA: mid-**November 2020**

Contact Us...

Questions/Comments:

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